ACCESSION NR: AT3013147

and glucose-6-phosphate levels increase in the brain tissue from the 15th to the 90th days. Fructose-1.6-diphosphate level does not change during the first 15 days, decreases by the 30th day, increases by the 60th day, and then decreases again. Phosphopyruvic acid level decreases on the 60th day after irradiation but remains close to normal at all other periods. Fractional radiation doses totaling 760 r affect glycogen metabolism less than a single 700 r dose and cause more serious damage to carbohydrate metabolism intermediate products. Carbohydrate-phosphorus metabolism disorders sharply reduce the utilization of brain tissue energy substances during radiation injuries. Orig. art. has: 4 figures.

ASSOCIATION: Laboratoriya biokhimii instituta fiziologii AN BSSR, Minsk (Biochemistry Laboratory of the Physiology Institute, AN BSSR)

SUBMITTED: 00

DATE ACQ: 280ct63

ENCL: 00

SUB CODE: AM NO REF SOV:

015

OTHER : 000

Card 3/3

CHERKASOVA, L.S., prof., red.

[Biochemistry of small doses of ionizing radiation] Bio-khimiia malykh doz ioniziruiushchei radiatsii. Minsk, Izd-vo "Nauka i tekhnika," 1964. 164 p. (MIRA 17:5)

CHERKASOVA, L.S., PIKU EV, A.T.

\$1 - -

Change in the glutaminic and alaninic aminopherase in the central nervous system and skeletal muscles during X-ray irradiation. Dokl. AN BSSR 8 no.4:263-266 Ap '64.

(MIRA 17:6)

1. Belorusskiy gosudarstvennyy universitet imeni Lenina i Institut fiziologii AN BSSR. Predstavleno akedemikom AN BSSR T.N. Godnevym.

MEREZHINSKIY, Mikhail Fedorovich; CHERKASOVA, Lidiya Semenovna; MEDVEDEV, Zh.A., red.

[Fundamentals of clinical biochemistry] Osnovy klinicheskoi biokhimii. Moskva, Meditsina, 1965. 358 p. (MIRA 17:12)

L 29835-66 EWT(m) -

ACC NR: AP6012873

SOURCE CODE: UR/0205/66/006/002/0179/0184

AUTHOR: Cherkasova, L. S.; Koldobskaya, F. D.; Kukushkina, V. A.; Mironova, T. M.; Remberger, V. G.; Tayts, M. Yu.; Fomichenko, K. V.

39 37

ORG: Institute of Physiology, AN BSSR, Minsk (Institut fiziologii AN BSSR)

TITLE: Effect of neutron irradiation on tissue metabolism processes

B

SOURCE: Radiobiologiya, v. 6, no. 2, 1966, 179-184

TOPIC TAGS: neutron irradiation, radiation biologic effect, tissue physiology, animal experiment 610LOGIC METABOLISM

ABSTRACT: In order to clarify the effect of neutron bombardment on carbohydrate, energy, and protein metabolism at relatively low doses, the changes in free and bound glycogen, glucose-1-phosphate, glucose-6-phosphate, fructose-1, 6-diphosphate, triose-phosphate, phosphopyruvate, ATP, creatine phosphate, phosphorylase, amylase, succinic dehydrogenase, respiratory quotient, and protein content were determined in the central nervous system, skeletal muscle, and liver of adult white rats 15 - 30 days after total body irradiation with neutrons having energies of 0.04 - 1.35 Mev (total dose of about 13 rad in 60 min).

Card 1/2 UDC: 577.391:539.125.5

**L** 29835-66

ACC NR: AP6012873

While the glycogen content of the brain increased temporarily at 15 days and then decreased progressively, that of muscle decreased only at 15 days. The synthesis of bound glycogen was definitely inhibited 30 days after irradiation, and disruption of the coordination of glycogen metabolism was shown by the phosphorylase and amylase values. There were no significant changes in the phosphorylated intermediates of carbohydrate metabolism, but the reactions from glucose-6-phosphate through fructose-1, 6-diphosphate to triose-phosphate seemed to be inhibited in the brain, while that from glucose-1-phosphate to glucose-6-phosphate was accelerated in skeletal muscle. The levels of ATP and creatine phosphate were unchanged in the brain and somewhat increased in muscle. Although the changes in succinic dehydrogenase and QO<sub>2</sub> were insignificant, there was some increase in protein synthesis 30 days after irradiation. The neutron flux was measured by L. N. Uspenskiy and I. V: Filyushin. Orig. art. has: 5 figures and 5 tables. [08]

SUB CODE: 06 / SUBM DATE: 14Nov64 / ORIG REF: 005 / OTH REF: 004 ATD PRESS: 3-0/3

Card 2/2 F

BOGDANOV, Vyacheslav Mikhaylovich, prof.; KOROIEVA, A.I., retsenzent; BAKAREVA, A.I., retsenzent; TKAL', T.K., retsenzent; SUIMA, V.A., retsenzent; KOROIEVA, N.S., retsenzent; CHERKASOVA, M.P., red.; ZARSHCHIKOVA, L.N., tekhn. red.

[Microbiology of milk and milk products]Mikrobiologiia moloka i molochnykh produktov. 4 izd., perer. i dop. Moskva, Pishche-promizdat, 1962. 307 p. (MIRA 15:12)

1. Prepodavateli Khar'kovskogo tekhnikuma molochnoy promyshlennosti (for Koroleva, Bakareva, Tkal', Suima). 2. Starshiy mikrobiolog Moskovskogo molochnogo kombinata (for Koroleva, N.S.).

(Dairy bacteriology)

KAFKA, Boris Vyacheslavovich; LYADOVA, Galina Alekseyevna; NORMANOVA, Raisa Dmitriyevna; CHERKASOVA, M.P., red.; KISINA, Ye.I., tekhn. red.

["Eno" coloring matter and its use for coloring confectionery products] Enokrasitel' i ego primenenie pri okrashivanii konditerskikh izdelii. Moskva, Pishchepromizdat, 1963. 31 p. (MIRA 16:12)

(Coloring matter in food) (Grapes) (Confectionery)

EYSTROV, A.A.; NESTEROVA, K.P., MUKHINA, S.A.; CHERKASOVA, M.P., red.

[Instruction concerning the VE-2M moisture meter for the determination of moisture content in flour and macaronis] Instruktsiia k vlagomeru VE-2M dlia opredeleniia vlazhnosti muki i makaronnykh izdelii. Moskva, Pishchepromizdat, 1963. 18 p. (MIRA 17:5)

1. Moscow. TSentral'naya nauchno-issledovatel'skaya laboratoriya makaronnoy promyshlennosti. 2. Nauchnyye sotrudniki nauchno-issledovatel'skoy laboratorii makaronnoy promyshlennosti(for Bystrov, Nesterova, Mukhina)

GVELESIANI, Vladimir Pavlovich; AGABAL'YANTS, G.G., spets. red.; CHERKASOVA, M.P., red.

[Use of bentonite for the clarification of wine] Osvetlenie vina bentonitovymi glinami. Moskva, Izd-vo "Pishchevaia promyshlennost'," 1964. 19 p. (MIRA 17:9)

CHERKASOVA, M.Ye.

Auto- and hemotransplantation of the extremities; a review of the literature. Trudy 1-go MMI 42:9-18 '65.

(MIRA 19:2)

1. Laboratoriya po peresadke organov i tkaney AMN SSSR.

ACC NR: AR6034655 (A) SOURCE CODE: UR/0299/66/000/008/M020/M021

AUTHOR: Govallo, V. I.; Cherkasova, M. Ye.; Kosobokova, V. F.;
Konstantinova, T. N.

TITLE: Specific features of the reaction of a recipient to homotransplantation as a function of the time of its adoption

SOURCE: Ref. zh. Biologiya, Part, II, Abs. 8M120

REF SCURCE: Tr. 1-go Mosk. med. in-ta, v. 42, 1965, 197-208

TOPIC TAGS: medical research, medical experiment, cortisone, biology, biologic transplant, tissue transplant, homotransplantation

ABSTRACT: A study was made of the conditions for adoption of small (3 x 3 cm) skin homotransplants in rabbits not subjected to other actions (control), during the treatment of the recipient with cortisone and during a massive (15 x 12 cm) homotransplant. The dynamics of accumulation of antibodies in the blood to the erythrocytes and the leucocytes of the donor were also observed. Male rabbits were the recipients. Homotransplants were made on the side surface of the back. The sutures and bandage were removed after 7 days. Small homotransplants lost their viability after 8—13 days, massive homotransplants after 21—28 days. Card1/3

UDC: 577.99

#### ACC NR: AR6034655

2/3

During simultaneous small and massive homotransplants on the recipient, the first were destroyed on the 17th-25th day. When recipients were given daily intermuscular doses of 12.5 mg of cortisone the homotransplants were destroyed after 3 to 6 weeks. Full hemagglutinin to the erythrocytes of the donor were found in 13 and 38 recipients subjected to a small homotransplant. In cases of massive homotransplants, they were found in 5 recipients out of 10. During small homotransplants, the time of appearance and the largest concentration of these antibodies corresponded to the period of destruction of the homotransplant. During massive homotransplants, their resorption took place during a period of noticeable decrease in the homotransplant titers. During cortisone treatment of recipients sub-ected to a small homotransplant, the appearance of full hemagglutinin was likewise noted in 8 out of 17 rabbits. Incomplete antibodies Coombs method appeared in the blood of the recipient with a greater regularity than full hemagglutinin. Greater concentrations of incomplete antibodies were present in the serum, but their dynamics corresponded to that of full antibodies. Cytotoxin type antibodies were found less frequently in rabbits receiving cortisone. During small homotransplants, whose disengagement occurred soon after transplant, cytotoxines appeared in the blood earlier than in that of other rabbits. The author is of the opinion that humoral mechanisms as well as cellular specific defense factors, which are the two sides of a single response reaction of the entire organism,

participate	5034655 sooner in the	destruction of t	the homotransplant.	The bibliography	has GC]
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ACC NR: AR6034655 (A) SOURCE CODE: UR/0299/66/000/008/M020/M021

AUTHOR: Govallo, V. I.; Cherkasova, M. Ye.; Kosobokova, V. F.; Konstantinova, T. N.

TITLE: Specific features of the reaction of a recipient to homotransplantation as a function of the time of its adoption

SOURCE: Ref. zh. Biologiya, Part, II, Abs. 8M120

REF SOURCE: Tr. 1-go Mosk. med. in-ta, v. 42, 1965, 197-208

TOPIC TAGS: medical research, medical experiment, cortisone, biology, biologic transplant, tissue transplant, homotransplantation

ABSTRACT: A study was made of the conditions for adoption of small (3 x 3 cm) skin homotransplants in rabbits not subjected to other actions (control), during the treatment of the recipient with cortisone and during a massive (15 x 12 cm) homotransplant. The dynamics of accumulation of antibodies in the blood to the erythrocytes and the leucocytes of the donor were also observed. Male rabbits were the recipients. Homotransplants were made on the side surface of the back. The sutures and bandage were removed after 7 days. Small homotransplants lost their viability after 8—13 days, massive homotransplants after 21—28 days.

Cond. 1/3

#### ACC NR: AR6034655

During simultaneous small and massive homotransplants on the recipient, the first were destroyed on the 17th-25th day. When recipients were given daily intermuscular doses of 12.5 mg of cortisone the homotransplants were destroyed after 3 to 6 weeks. Full hemagglutinin to the erythrocytes of the donor were found in 13 and 38 recipients subjected to a small homotransplant. In cases of massive homotransplants, they were found in 5 recipients out of 10. During small homotransplants, the time of appearance and the largest concentration of these antibodies corresponded to the period of destruction of the homotransplant. During massive homotransplants, their resorption took place during a period of noticeable decrease in the homotransplant titers. During cortisone treatment of recipients subjected to a small homotransplant, the appearance of full hemagglutinin was likewise noted in 8 out of 17 rabbits. Incomplete antibodies Coombs method appeared in the blood of the recipient with a greater regularity than full hemagglutinin. Greater concentrations of incomplete antibodies were present in the serum, but their dynamics corresponded to that of full antibodies. Cytotoxin type antibodies were found less frequently in rabbits receiving cortisone. During small homotransplants, whose disengagement occurred soon after transplant, cytotoxines appeared in the blood earlier than in that of other rabbits. The author is of the opinion that humoral mechanisms as well as cellular specific defense factors. which are the two sides of a single response reaction of the entire organism,

Card 2/3

ACC NR AR6034  participate soon 31 references.	The bibliography has [GC]	
SUB CODE: 06		

CHERKASOVA, M.Ye.; KIRPATOVSKIY, I.D.

Homotransplantation of the kidney. Trudy 1-go MMI 42:177-180

(MIRA 19:2)

1. Laboratoriya po peresadke organov i tkaney AMN SSSR.

GOVALLO, V.I.; CHERKASOVA, M.Ye.

Characteristics of the immunological reaction to homotransplantation of a kidney in dogs. Trudy 1-go MMI 42:181-186 (MIRA 19:2)

1. Laboratoriya po peresadke organov i tkaney AMN SSSR.

1 03 Ch. 57 AR6034654 /A) SOURCE CODE: UR/0299/66/000/008/M020/M020

AUTHOR: Cherkasova, M. Ye.; Kirpatovskiy, I. D.

2

TITLE: On the problem of kidney homograft

SOURCE: Ref. zh. Biologiya, Part II, Abs. 8M118

REF SOURCE: Tr. 1-go Mosk. med. in-ta, v. 42, 1964, 177-180

TOPIC TAGS: biologic transplant, organ transplant, medical science

ABSTRACT: A kidney transplant to the neck performed on dogs was accompanied in the case of eight dogs (first series) by a bilateral nephrectomy. A one-sided nephrectomy was performed on 11 dogs (second series) at the time of the transplant. No nephrectomy was performed on four dogs (third series). Among all the dogs, eight died within two days. The kidney of the dogs of the first series functioned for 7—11 days (to seven days in one case). A sharp change in the blood indices and urine composition was noted. The transplanted kidney of the dogs of the second and third series ceased to eliminate urine on the second to seventh day (in two cases, more than seven days). No change was noted in blood and urine

Card 1/2

UDC: 577.99

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ACC NR: AR6034654	0
indices. After the transplanted kidney ceased to function, its s few days later, it detached itself. [Translation of abstract]	size doubled and a
SUB CODE: 06/	
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Card 2/2 /	

L 20269-65 AMD S/0299/64/000/014/M024/M024

SOURCE: Ref. zh. Biologiya. Svodny\*y tom, Abs. 14M159

AUTHOR: Kirpatovskiy, I. D.; Byskova, N. A.; Kulik, V. P.;

Cherkasova, M. Ye.

TITLE: Total transplantation of a small intestine as a new mode of vital organ transplantation

CITED SOURCE: Sh. 3 Vses. konferentsiya po peresadke tkaney i organov, 1963. Merevan, 1963, 343-344

TUPIC TAGS: dog, transplantation, autotransplantation, intestine, homotransplantation, blood circulation, regional lymph node

TRANSLATION: In an experiment on dogs, three basic modes of small intestine transplantation have been developed: total autotransplantation, total homotransplantation, and implantation of a second supplementary intestine. On the basis of 22 operations and investigation of 20 control animals, the permissable time limits that a small intestine can be excluded from blood circulation were

Card 1/2

L 20269-65 ACCESSION NR: ARLIOLIS870

determined. The intestine transplant was connected to the vascular system by 4 methods: by connection to the renal artery, by connection to the vascular pedicle of the spleen, by connection to the superior mesenteric artery, and by connection with a prothesis of the mesenteric transplant artery to the abdominal aorta. Venous flow was directed into the portal system either through the superior mesenteric vein or through the splenic vein. Intestinal anastomoses modified by Kirpatovskiy were placed on the 2 ends of the intestinal tract. Life of a transplant after total homotransplantation is 1.5 mos. After animal death the intestine macroscopically appeared viable. Histologically the entire intestinal epithelium was dead, basal membranes were exposed, and hyperplasia of the lymph intramural system and regional lymph nodes was found, and with homotransplantation a sharp increase of lymph nodes was found along the portal vein course.

SUB CODE: LS ENCL: 00

Card 2/2

GOVALLO, V.I.; CHERKASOVA, M.Ye.; KOSOBOKOVA, V.F.; KONSTARTISOVA, T.N.

Characteristics of the response reaction of the recipient to a skin homograft depending on the date of its taking. Trudy 1-go MM1 42:197-208 '65. (MIRA 19:2)

1. Laboratoriya po peresadke organov i tkaney AMN SSSR.

AUTHOR: Cherkaseva, m. Ye.

TITLE: Self-transplant and homotransplant of the extremity

SOURCE: Ref. zh. Biologiya, Part II, Abs. 8M100

REF SOURCE: Tr. 1-go Mosk. med. in-ta, v. 42, 1965, 9-18

TOPIC TAGS: self transplant, homotransplant, animal, toxicosis, extremity,

thrombosis

ABSTRACT: The data are presented for studies by various authors of problems concerning the self-transplant and homotransplant of the extremity. The primary cause of loss of animals during this operation is toxicosis and the early development of thrombosis. Great attention is paid to the methods of preserving the extremity and to the development of effective methods for combating tissue non-conformity. In the author's opinion, the problem of extremity transplants has not yet been solved completely. Bibliography of 53 titles. [Translation of abstract]

SUB CODE: 06/

Card 1/16/10

UDC: 577.99

ZHELEZNOVA, Sh.I.; CHERKASOVA, N.G.

Clinical aspects of the metastatic spreading of cancer into the brain. Kez. med. zhur. no.2:11-12 Mr-Ap '62. (MIRA 15:6)

1. Otdeleniye nervnykh bolezney Respublikanskoy klinicheskoy bol'nitsy (glavnyy vrach - Sh.V. Bikchurin) i kafedra nervnykh bolezney (zav. - prof. L.I. Omorokov) Kazanskogo meditsinskogo instituta.

(BRAIN-CANCER)

CHERKASOVA, N.G.

Case of dystonia musculorum deformans, Kaz.med.zhur. 40 no.5: 83-85 S-0 '59. (MIRA 13:7)

1. Iz kafedry nervnykh bolezney (zav. - prof. L.I. Omorokov) Kazanskogo meditsinskogo instituta. (MUSCLES--DISRASES)

PAVLINOVA, A.V.; CHERKASOVA, N.M.

Complexing reaction of trivalent iron with marmitol. Zhur.anal. khim. 16 no.6:733-735 N-D :61. (MIRA 14:12) (Iron compounds) (Mannitol)

CHERKASOVA, N.S.

Problem of dyseatery in infants. Thur, mikrobiol, epid. i insun. 27 no.12:54-57 D \*5%. (MIRA 10:1)

1. Is Ryasanskogo radil'nogo doma No.2.
(DYSENTERY, RACILIARY, in infant and child.
(Rus))

CHERKASOVA, NIS.

CHERKASOVÁ, N.S., assistent

Prevention and treatment of skin cracks of the nipples with gramicidine C during puerperium. Akush. i gin. 32 no.6:37-44 N-D '56. (MIRA 10:11)

CHERKASOVA, N.S.; SMIRNOV, G.N; PATUSHINSKAYA, R.A.

Some data on the epidemiology of dysentery in pregnant women, in women recentrally confined, and in children, Pediatriia 39 no.3: 89-90 My-Je 156. (KLRA 9:9)

l. Iz kafedry akusherstva i ginekologii Ryazanskogo meditsinskogo instituta.

(DYSENTERY)

CHERKASOVM. N.S.

CHERKASOVM. N.S.

Comparative rating of various methods for the preventive care of the nipples during the period of lactation. Vop.okh.mat. i det.

3 no.1:64-68 Ja-F '58. (MIRA 11:2)

1. Iz kafedry skusherstva i ginekologii (zav. - prof. G.N.Smirnov)
Ryazanskogo meditsinskogo instituta.

(BRNAST) (LACTATION)

CHERKASOVA, N. S.: Master Med Sci (diss) -- "The prophylaxis of breaking nipples during lactation". Ryazan', 1958. 20 pp (Ryazan' Med Inst im Acad I. P. Pavlov), 200 copies (KL, No 10, 1959, 129)

Diet for pregnant and nursing women. Fel'd. i akush. 26 no.4:20-35 Ap '61. (MIRA 14:3)

CHERKASOVA, N. S., kand. med. nauk (Ryazan')

Prevention of mastitis. Fel'd. 1 akush. 27 no.5:27-31 My '62.

(MIRA 15:7)

(BREAST-DISEASES)

CHERKASOVA, N.S., kand.med.nauk

Prevention of dysentery in young children. Fel'd. i akush. 28 no.3:33-35 Mr'63. (MIRA 16:7)

l. Iz kafedry akusherstva i ginekologii Ryazanskogo meditsinskogo instituta.

(DYSENTERY—PREVENTION) (CHILDREN—DISEASES)

CHERKASOVA, N.S.

Interrupted pregnancy during the late period due to intra-enclotic administration of rivanol. Nauch, trudy Riaz, med, for 2004/13/2

Intra-amniotic administration of rivanol in protracted and almost completed pregnancy. Ibid.:172-175 (MICS 17:5)

l. Kofedra akusheratva i ginekologii (zav. kafedroy - prof. G.N.Smirnov) Ryazanskogo meditsinskogo instituta.

CHERKASOVA, N.S.

Interruption of pregnancy at late periods by means of retroendometrial introduction of rivanol solution in women having had cesarean section. Nauch.trudy. Riaz.med.inst. 18 no.2:208-213 '64.

(MIRA 19:1)

1. Kafedra akusherstva i ginekologii (mav. - prof. G.N.Smirnov) Ryazanskogo meditsinskogo instituta.

3/081/62/000/010/021/085 B138/B101

AUTHORS:

Murav'yeva, I. A., Nemkova, O. G., Cherkasova,

Orlova, A. S.

TITLE:

Binary uranyl phosphates

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 10, 1962, 93, abstract 10V19 (Sb. "Issled. v obl. khimii urana". M., Mosk. un-t, 1961,

240 - 247

TEXT: NaUO $_2$ PO $_4$  is precipitated from acid solutions of uranyl salts by using a  $NaH_2PO_4$  solution at a concentration of > 0.005 M. NaUO\_2PO\_4 can be precipitated from solutions of uranyl salts in the presence of Ca, Sr and Ba salts, but it cannot be precipitated in the presence of Cu salts. [Abstracter's note: Complete translation.]

Card 1/1

38228 5/057/62/03 2/000 001/022

26,1410

AUGHORS: Potovic R V, and Cherkesovo, R, S

TITLE: Megnetonyd commanio description of a plasma

PLRIODICAL: Zhurnal tekhnicheskoy fiziki, v. 32, no. 6, 1962, 649 - 656

TEXT: A multi-component plasma is described by the single-liquid magnetohydrodynamic equations of motion for each of the components. Ohm's law is derived for both equal and different velocities of the individual plasma components. In particular, a plasma having three components variously combined is dealt with. The energy what it tion as depending on the magnetic field is examined.

SUBMITTED: May 19 1961 (inicially), Becamber 8, 1961 (after revision)

Oard 1/1

CHERKASOVA, S.A.

Quality of crude oil in the seeds and leaves of the cotton plant. Dokl. AN Uz. SSR 21 no.8:45-46 '64. (MIRA 19:1)

1. Nauchno-issledovatel'skiy institut zashchity rasteniy Ministerstva sel'skogo khozyaystva UzSSR. Submitted March 19, 1963.

L 10418-67 EWT(m) DS/RM ACC NR: AP6029925 (A)

SOURCE CODE: UR/0413/66/000/015/0089/0089

AUTHORS: Leykin, Yu. A.; Davankov, A. B.; Korshak, V. V.; Cherkasova, T. A.; Sergeyeva, L. M.

ORG: none

TITLE: A method for obtaining a phosphorus-containing cationite. Class 39, No. 184449 / Announced by Moscow Institute of Chemical Technology im. D. I. Mendeleyev (Moskovskiy khimiko-tekhnologicheskiy institut)/

SOURCE: Izobret prom obraz tov zn, no. 15, 1966, 89

TOPIC TAGS: cation, phosphorus, copolymerization, copolymer, hydrolysis

ABSTRACT: This Author Certificate presents a method for obtaining phosphorus-containing cationite by copolymerizing various diesters of nucleus-substituted styrylphosphinic acid and cross-linking agents. The copolymer is then hydrolized. To obtain a selective cationite with one stage of dissociation, the hydrolysis is conducted in an alkaline medium.

SUB CODE: 07/ SUBM DATE: 28May64

Card 1/10/10

VDC: 678.85:661.183.123.2.002.2

VYSOTSKAYA, K.P., dotsent (Irkutsk, Baykal'skaya ul., d.58-g);
LIYV, E.Kh. [Liiv,E.] (Tartu, Estonskaya SSR, ul. Kalevi,
d.106-a, kv.3); TIKHANE, Kh.M. [Tihane, H.]; ROZENBLYUM,
M.B. (Minsk, ul. Kirova,d.2,kv.43); VELLER, D.G. (Khar'kov,
Kostomarovskaya ul.,d.18,kv.19); CHERKASOVA, T.I. (Moskva,
ul.Markhlevskogo d.16,lv.14); DEDOVA, V.D.

Abstracts of articles received by the editors. Ortop., travm. i protez. 24 no.3:73-76 Mr 103.

(MIRA 17:2)

1. Iz fakul'tetskoy khirurgicheskoy kliniki (zav. kafedroy prof. B.D. Dobychin) Irkutskogo meditsinskogo instituta
(rektor - prof. A.M. Nikitin) (for Vysotskaya). 2. Iz
Tartuskoy gorodskoy klinicheskoy bol'nitsy (for Liyva
Tikhane). 3. Iz khirurgicheskogo otdeleniya (zav. kand.
med. nauk G.M. Yakovenko) mediko-sanitarnoy chasti Minskogo
traktornogo zavoda (for Rozenblyum). 4. Iz TSentral'nogo
instituta travmatologii i ortopedii (dir. - prof. M.V.
Volkov) (for Cherkasova, Dedova).

CHERKASOVA, T.I., kandidat meditsinskikh nauk

Functional condition of dorsal muscles in patients following compression fractures of the spine. Ortop., travm. i protez. no.6: 39-46 N-D \*55. (MIRA 9:12)

1. Iz fiziologicheskoy laboratorii (zav. - prof. V.V.Yefimov)
TSentral'nogo instituta travmatologii i ortopedii (dir. - chlenkorrespondent AMN SSSR prof. N.N.Priorov)
(SPINE, freet.

compression fract., funct. of dorsal muscles in)
(BACK, musc.
funct. in compression fract. of spine)

#### CHERKASOVA, T.I., starshiy nauchnyy sotrunik

Changes in the lability of the neuromuscular apparatus following injury to the spine and spinal cord. Ortop.travm. i protez 19 no.2:70-73 Mr-Ap 158 (MIRA 11:5)

Iz fiziologicheskoy laboratorii (zav. - prof. V.V. Yefimov)
TSentral'nogo instituta travmatologii i ortopedii (dir. - deystvitel'nyy chlen AMN SSSR prof. N.N. Priorov)
(SPINE, fract.

with spinal cord inj. posttraum, changes in lability of neuromusc. system (Rus))
(SPINAL CORD, wds & inj.

caused by spine fract., posttraum. changes in lability of neuromusc. system (Rus))

SOV/20-122-2-41/42

AUTHORS: Priorov, H. H., Membe

Member of the Academy of Medical

Sciences, USSR, Andreyev, S. V., Cherkasova, T. I.

TITLE:

The Role of Cobalamine in the Restoration of the Function of

the Arm of After Damage to Peripheral Nerves

(Znacheniye kobalamina dlya vosstanovleniya

funktsiy ruki cheloveka posle pereryva perifericheskikh nervov)

PERIODICAL:

Doklady Akademii nauk SSSR, 1958, Vol 122, Nr 2, pp 312-315

(USSR)

ABSTRACT:

The acceleration of the regeneration of nerve tissue is one of the most urgent problems in the practice of restoring normal functions. In man this period stretches for 3 - 7 years, if one extremity is injured. The methods of stimulation applied at present of the regenerative process in nerves do not achieve a complete restoration of the sensorial and motoric functions (Refs 2, 4, 5, 8, 10). In man and in animals the severing of one nerve or several nerves leads to complicated and involved modifications in the whole organism. Degenerative modifications develop in various parts of the peripheral, vegetative and central nerve system (Refs 6, 7).

Card 1/4

507/20-122-2-41/42

The Role of Cobalamine in the Restoration of the Function of the Arm of Patients After Damage to Peripheral Nerves

There is reason to believe that the regeneration of one single injured nerve is sufficient for the removal of all pathological consequences of the trauma. This is presumably true in particular in cases, where a considerable time has elapsed since the traumatic effect and the pathological modifications in the organism are already well established. Hence a simultaneous and multi-directional stimulation of the nerve-, the metabolism-, the blood vessel-, the haemodynamical and of other functions is required for a complete re-establishment of the activity of a traumated extremity. It proceeds from experimental evidence collected in the Institut farmakologii i khimioterapii Akademii meditsinskikh nauk SSSR (Institute of Pharmacology and Chemical Therapy, Academy of Medical Sciences, USSR) (Ref 1) that the widely effective vitamin B<sub>12</sub> (cobalamine) does not only accelerate the regeneration of the injured peripheral nerves in rats, but also stimulates the re-production of the motoric platelets in the muscles surrounding the nerve. This is also true for blood vessels and for other organs and functions. (Refs 9, 11-13). It was the purpose of this paper to seek an understanding of the role played by cobalamine in the regeneration of one

Card 2/4

507/20-122-2-41/42

The Role of Cobalamine in the Restoration of the Function of the Arm of Patients After Damage to Peripheral Nerves

or of two severed nerves in the human hand and in the reestablishment of the function of the hand. 50 persons were incorporated in this test: I) (37 persons) who suffered from a complete anatomical severance of a nerve, and II) (13 persons) with a simultaneous severance of the nervus medianus and ulnaris. Cobalamine was injected under the skin of the shoulder. From 25 to 30 injections were administered and this treatment was repeated after a lapse of 10 - 15 days for 2 - 4 times. The experience collected shows that an increase of the cobalamine dosis from 15 - 30 to 200  $\mu \epsilon$ per injection seems advisable. A comparison was carried out between the clinical observations and the dynamics of the physiological modifications of 29 persons of group I. It appeared that the introduction of cobalanine into the method of treatment considerably accelerates the initial features of regeneration and of a restoration of normal functions. A complete restoration of sensitivity together with a partial restoration of movability was found in 2 persons, who received injections of thiamin. In cases where patients

Card 3/4

SCV/20-122-2-41/42

The Role of Cobalamine in the Restoration of the Function of the Arm of Patients After Damage to Peripheral Nerves

who were given cobalamine exhibited an incomplete re-innervation of muscles an acceleration of compensatory adaptions and a decrease of physiological displacements in the neuromuscular apparatus was observed. There are 2 figures and 13 references, 10 of which are Soviet.

ASSOCIATION: Tsentral'nyy nauchno-issledovatel'skiy institut travmatologii

i ortopedii

(Central Scientific Research Institute for Traumatology and

Orthopedics)

SUBMITTED: May 4, 1958

Card 4/4

-CHERKASOVA, T.I.

Changes in the central nervous system in injuries and their role in disorders of motor function following peripheral nerve injuries. Khirurgiia 36 no.6:74-80 Je '60. (MIRA 13:12) (NERVES, PERIPHERAL—WOUNDS AND INJURIES) (NERVOUS SYSTEM)

PRIOROV, N.N. [deceased]; ANDREYEV, S.V.; CHERKASOVA, T.I.

Use of cyanocobalamine in restoring functions of the peripheral nerve after a suture. Vit. res. i ikh isp. no.5:175-188 '61.

(MINA 15:1)

l. TSentral'nyy institut travmatologii i ortopedii Ministerstva zdravookhraneniya SSSR, Moskva.
(CYANOCOBALÁMINE) (NERVES, PERIPHERAL)
(REGENERATION (BIOLOGY))

CHERKASOVA, T.I.

Role of cyancobalamine in eliminating the central component of the trauma in ruptures of peripheral nerves. Vit. res. i ikh. isp. no.5: 189-202 '61. (MIRA 15:1)

1. TSentral'nyy institut travmatologii i ortopedii Ministerstva zdravookhraneniya SSSR, Moskva.
(CYANOCOBALAMINE) (NERVOUS SYSTEM\_WOUNDS AND INJURIES)

DEDOVA, V.D.; CHERKASOVA, T.I.

Accelerating the consolidation of bones by large doses of cyano-cobalamine in operative elongation of shortened lower extremities in children and adolescents. Vit. res. i ikh isp. no.5:240-249 '61. (MIRA 15:1)

1. TSentral'nyy institut travmatologii i ortopedii, Moskva. (CYANOGOBALAMINE) (ORTHOPEDIA)

DEDOVA, V.D.; CHERKASOVA, T.I.

Effect of cyanocobalamine on the regeneration of bone tissue following operative elongation of human extremities. Dokl. AN SSSR 140 no.6:1467-1470 0 '61. (MIRA 14:11)

1. Predstavleno akademikom A.N.Bakulevym. (CYANOCOBALAMINE) (OSSIFICATION)

DEDOVA, V.D.; CHERKASOVA, T.I.

Effect of vitamin B<sub>12</sub> on the regeneration of bone tissue (in surgical elongation of a human extremity). Ortop., travm. i protez. no.1238-42\*63. (MIRA 16:10)

1. TSentral nogo instituta travmatologii i ortopedii (dir.-prof. M.V.Volkov).

CHERKASOVA, T.I., KAZ'MIN, A.I.

\* \* \*

Function of external respiration in serious forms of scoliosis.

Vest. khir. 93 no.9976-83 S 164. (MIRA 18:4)

1. Iz TSentral'nogo instituta travmatologii i ortopedii.

CHERKASOVA, T.I., starshiy nauchnyy sotrudnik (Moskva, tsentr, ul. Markhlev-skogo, d.15, kv. 14)

Some physiological indications in surgical elongation of the extremities. Ortop., travm. i protez. 26 no.1:60-64 Ja '65. (MIRA 18:5)

1. Iz TSentral'nogo instituta travmatologil i ortopedii (dir. - chlen-korrespondent AMN SSSR prof. M.V. Volkov).

CHERKASOVA, T.I., starshiy nauchnyy sotrudnik (Moskva, tsentr. ul. Markhlevskogo, d.15. kv.14)

Characteristics of the functional state of the neuromuscular apparatus at different times following a rupture of Achilles tendon. Ortop. travm. i protez. 26 no.6:50-55 Je '65.

(MIRA 18:8)

1. Iz TSentral'nogo instituta travmatologii i ortopedii (dir.-chlen-korrespondent AMN SSSR prof. M.V. Volkov).

#### CHERKASOVA, T.I.

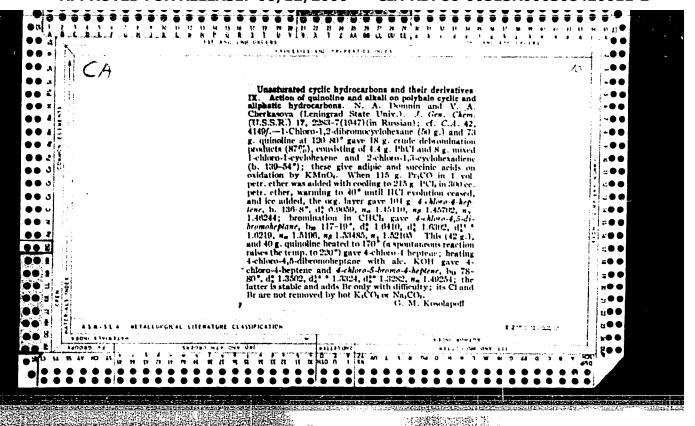
Research on the lability of the neuromuscular system in some types of sports injury. Sov. med. 26 no.11:131-136 N'62 (MIRA 17:3)

l. Iz TSentral'nogo instituta travmatologii i ortopedii (dir.
prof. M.V. Volkov).

CHERKASOVA, T.S.

Perithelioma of the neck with infiltration into the pharynx in a nin-year-old child. Vest. oto-rin. 25 no.4:92-94 J1-Ag '63. (MIRA 17:1)

1. Iz otorinolaringologicheskogo otdeleniya (zav. - dotsent F.F. Malomuzh) detskoy klinicheskoy bol'nitsy No.9 imeni F.E. Dzerzhinskogo, Moskva.



APPROVED FOR RELEASE: 00/12/2000				
CHERKASOVA, V. A.	ed Cyclic Hy- , XII. The logenation and rkasova, Lab		out 90% bro- diene-l,3 dithere-l,3 containing n bet cyclo- ln the pres- tots contg titnolline per- ormation of	000300420011-2 Οημέ92
USSR/Chemistry - Hydrocarbons	"Investigation in the Field of Unsaturated Cyclic Hydrocarbons and Their Balogen Derivatives, XII. The Mechanism of the Reaction of Combined Halogenation and Dehalogenation," N. A. Domnin, V. A. Cherkasova, Lab im Favorskiy, Leningrad State U  Zhur Obshch Khim, Vol 22, No 5, pp 897-900	It was established by absorption spectroscopy in the ultraviolet part of the spectrum that low-boiling (78-80.50) fractions of the product of the reaction of cyclohexadienel, 3 with quinoline tetrabromide in the presence of quinoline contain benzene, 263T40	bromobenzene, and cyclonexagnene_1,3, one need to boiling (152-1580) fraction contains about 90% bromobenzene. In the reaction of cyclohexadiene-1,3 with quincline hydrobromide dibromide in the presence of quincline, a mixt of products containing 90-95% benzene is formed. The reaction bet cyclohexadiene-1,3 and quincline dibromide in the presence of quincline forms a mixt of products contgabout 20% benzene. The formation of quincline perbromates is the second stage of transformation of polymalogen derivs of cyclohexane in aromatic compds upon heating with quincline.	

CHERCASOVA, V.A.

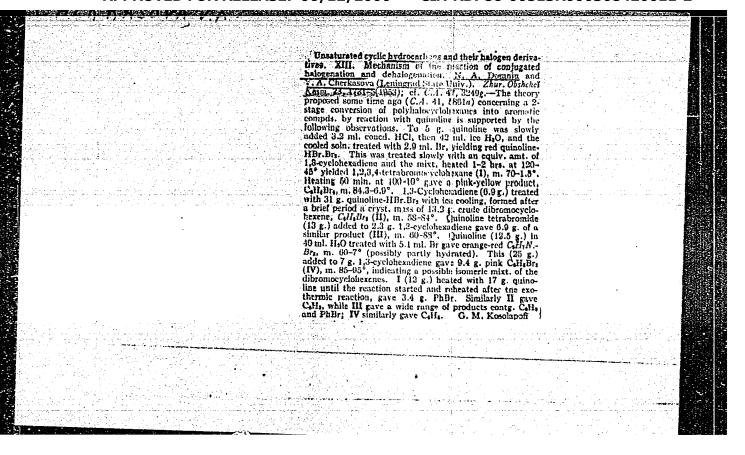
Chemical Abst.

Vol. 48 No. 5

Fig. 10, 1954

Organic Chemistry

Unsaturated cyclic hydrogarbons and their balogen defination of continual properties of the properties of the



CHERKASOVA

WSSR/Chemistry - Unsaturated hydrocarbons

Card 1/1

Pub. 151 - 25/37

Authors

Domnin, N. A.; Krasil'nikova, G. K.; and Cherkasova, V. A.

Title

: Study of unsaturated cyclic hydrocarbons and their halogen derivatives. Part 16.- Reaction of metallic sodium with 2,3-dibromocyclohexadiens-1,3

Periodical : Zhur. ob. khim. 24/10, 1842-1845, Oct 1954

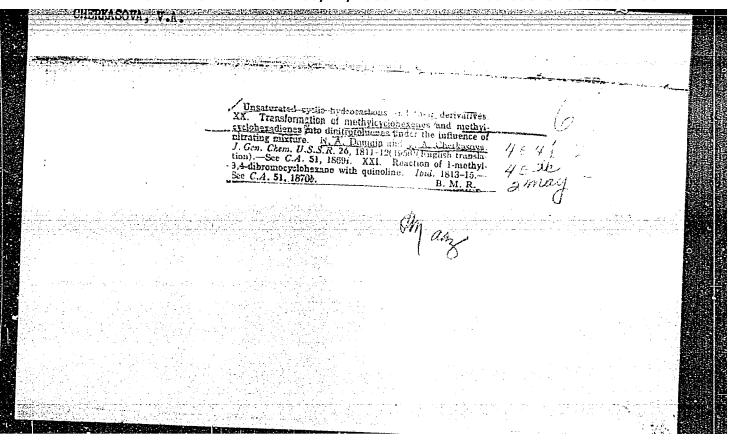
Abstract

The complete characteristic and structure of 2,3-dibromocyclohexadiene-1,3 is presented. It was established that the reaction between metallic sodium and 2,3-dibromocyclohexadiene-1,3 results in the formation of polymeric products and not benzene as anticipated. New problems regarding the mechanism of isomerization, the ease and difficulty in displacing the H-atoms in various cases stability of various types of deformed molecules, are discussed. Four refer-

ences (1912-1945), USSR.

Institution: State University, Leningrad

Submitted : April 23, 1954

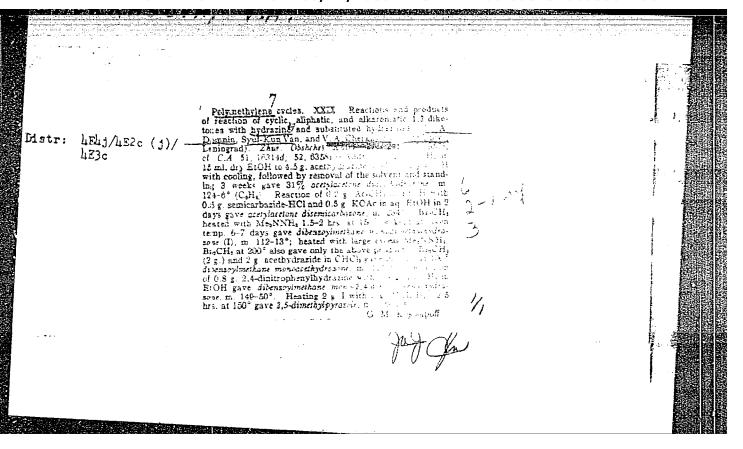


DOMNIN, N.A.; CHERKASOVA VA

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Research in the field of unsaturated cyclic hydrocarbons and their halide derivatives. Part 15: Reaction of 1,3-methylcyclo-no.5:1214-1215 My '57.

1.Leningradskiy gosudarstvennyy universitet.
(Cyclohexadiene) (Sthane)
(Quinoline)



SOV/79-28-5-7/63

CIA-RDP86-00513R000308420011-2"

AUTHORS:

Domnin, N. A., Dyurnbaum, V. I., Cherkasova, V. A.

TITLE:

Investigations in the Field of Polymethylene Cycles (Issledovaniya v oblasti polimetilenovykh tsiklov) XXX. Conversion of Diacetyl and Dibenzoyl With Dimethylhydrazine (Vzaimodeystviye diatsetila i dibenzoila s dimetilgidrazinom)

PERIODICAL:

Zhurnal obshchey khimii, 1958, Vol. 28, Nr 6, pp. 1469-1477

(USSR)

APPROVED FOR RELEASE: 06/12/2000

ABSTRACT:

Of the dihydrazines synthesized by Domnin and his collaborators (Refs 1 - 3) those of cyclopentadione-1,2 and cyclohexadione-1,2 are the least stable. These facts were explained by the authors by proceeding from the structure of the five- and six-membered rings as well as from the spatial difficulties dependent on the presence of =N-NH<sub>2</sub> and =N-N(CH<sub>3</sub>)<sub>2</sub> groups in the cyclic dihydrazones. For a further generalization it was necessary for the purpose of comparison to carry out the investigation of the conversion of the most simple aliphatic and aliphatic-arometic 1,2-diketones with dimethylhydrazine. For this purpose the reaction of diacetyl and dibenzoyl with dimethylhydrazine was used. The authors used

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SOV/79-28-6-7/63

Investigations in the Field of Polymethylene Cycles. XXX. Conversion of Diacetyl and Dibenzoyl With Dimethylhydrazine

only the hydrazine in place of the latter (Ref 4). It must be noticed that, as had been shown already several times, the conversions of various diketones with hydrazine and dimethylhydrazine take a completely different course with different products being formed. The reactions of diacetyl and dibenzoyl with dimethylhydrazine are shown in both mentioned reaction processes. Thus the bis-dimethylhydrazone of diacetyl was for the first time synthesized and characterized. Dibenzoyl reacts only with one molecule of dimethylhydrazine and on this occasion forms two spatial a- and B -forms of monodimethylhydrazone. It was found that  $ben_2il$  does not form bis-dimethylhydrazones and that the carbonyl group of the monodimethylhydrazone reacts neither with hydroxylamine nor with hydrazine and dimethylhydrazine. In the case of a conversion of monodimethylhydrazone of benzil with hydrazinehydrate a benzilhydrazone results. The monodimethylhydrazone of benzil on heating converts to the 1-methyl-3,4-diphenylpyrazole. There are 5 figures, 2 tables, and 10 references, 6 of which are Soviet.

Card 2/3

SOV/79-28-6-7/63

Investigations in the Field of Polymethylene Cycles, XXX. Conversion of Diacetyl and Dibenzoyl With Dimethylhydrazine

ASSOCIATION:

Leningradskiy gosudarstvennyy universitet

(Leningrad State University)

SUBMITTED:

July 20, 1957

1. Methyl hydrazines--Chemical reactions

Card 3/3

AUTHOUS:

Domnin, H. A., Cherkasova, V. A.

TITE:

Investigations Concerning the Folymethyl Jyelic Lompound. (Isaledovaniya v oblasti polimetilenovykh teiklov) RIKI. The Decomposition Reaction of 1-Chloro-1,2-Dibromo-cyclohexane With Quinoline (XXKI, Vzsimodeystviya 1-khlor-1,2-dibromtsiklogeksana s khinolinom)

ideoICUICadi:

Shurnal obshchey khimii, 1958, Vol. 28, Nr 8, pp.2064-2067(USSR)

SOV/79-88-8-14/66

ABSTRACT:

The authors previously showed that the decomposition reaction of 1-chloro-1,2-dibromocyclohexane with quincline yields chlorobenzene (Ref 1). Its presence was proven by the nitro-chlorobenzene (Ref 1). Its presence was proven by the nitro-substition method. The literature indicated that the nitro-substition method of benzene and its homologs are often formed tuted compounds of benzene and its homologs are often formed by the nitration of the unsaturated cyclohexane hydrocarbons (Ref 2). The authors later found that 2,4-dimitrotoluene can be synthesized by nitrating methyl cyclohexane and by nitrating methyl cyclohexane and by nitrating methyl cyclohexane and by nitrating methyl cyclohexane in a mixture which contains no toluene (Ref 5). As a result of these observations it was necessary to reject the classical nitration methods as means of proving the structures of aromatic hydrocarbons and their halogen derivatives, and also for those cases where unsaturated

Uard 1/5

BOV/79-08-8-14/66

Investigations Concerning the Polymethyl Cyclic Compounds. WAXI. The Decomposition Reaction of 1-Chloro-1,2-Dibromocyclohexane ith (minoline

cyclohoxene and cyclohexadiene hydrocarbone and their halogen derivatives are present the mixture. The reliable methods of apporption spectroscopy in the ultraviolet region ( of 4) were used to investigate the structures of the products of halogensting and dehalogenating the unsaturated cyclohexane hydrocerbons and the polyhalogen derivatives of cyclohexane. These methods showed that the decomposition reaction of 1-chloro-1,2-dibromocyclohexane with quinoline yields chlorobenzene (46 %) in addition to 1-chlorocyclonexene-1 and 2chlorocyclohexadiene-1,3 when the fraction boiling at 152-156° contains chlorobenzene, benzene (14 ) and some cyclohexadiene-1,3. A mechanism is suggested for the synthesis of benzene and cyclohexadiene-1,3 from 1-chloro-1,2-45bromocyclohexane. There are 1 figure and 8 references, 7 or which are Soviet.

AGROCIATION: Leningradskiy gosudarstvennyy universitet

(Leningrad State University) Uard 2/3

50V/79-28-8-14/66 Investigations Concerning the Polymethyl Cyclic Compounds. XXXI. The Decomposition Reaction of 1-Chloro-1,2-Dibromocyclohexane With Quinoline

BUBMITTED: July 20, 1957

Card 3/3

## DOMNIN. N.A.; CHERKASOVA, V.A.

Polymethylene rings. 32: Conversions of cyclohexane in conjugated Polymethylene rings. J2: Conversions. Zhur. ob.khim. 28 halogenation and dehalogenation reactions. Zhur. ob.khim. 28 (MIRA 11:11) no.9:2334-2338 S 158.

1. Leningradskiy gosudarstvennyy universitet. (Halogenation) (Cyclohexane)

5(3)

SUV/79-29-8-80/81

AUTHOR:

Cherkasova, V. A. 

TITLE:

On the Synthesis of Cyclohexadiene-1,3

PERIODICAL: Zharnal obshchey khimii, 1959, Vol 29, Nr 8,

pp 2804 - 2805 (JSSR)

ABSTRACT:

A. I. Chirko and K. L. Moysechuk published a report (Ref 1) on "The Kinetics of the Autooxidation of Cyclohexadiene-1,3". They simed to produce cyclohexadiene by means of the method alreacy described, to develop a new method for a synthesis via cyclohexene peroxide, and to investigate the kinetics and end product of the autooxidation of cyclohexadiene-1,3. The hydrocarbon was obtained via the hydroperoxide of cyclchexene and the effect of quincline on 1,2-dipromocyclohexane. A number of investigations dealt with the latter synthesis (Refs 2-4). Whereas N.D. Zelinskiy and Corskiy (Refs 3,4) and Crossley (Ref 5) were of the opinion that pure cyclohexadiene-1,3 could be obtained by this synthesis, C. Harries and his co-workers found that beside the cyclohexadiene there were also 51, cyclohexene (Ref 6). Wilstaetter and Hatt (Ref 7)

Card 1/3

On the Synthesis of Cyclohexadiene-1,3

507/79-29-8-80/81

separated from the reaction product of 1,2-dibromocyclohexane with quinoline 20 g benzene, apart from the cyclohexadiene-1,3 and cyclohexene, an amount which corresponds to about the seventh part of the hydrocarbon reaction. The presence of benzene was also proved spectroanalytically (Domnin, Ref 3). Thus the final product obtained by the heating of quinoline with 1,2-dibromocyclohexane is not of an individual nature, but a mixture of the above compounds. Though Chirko and Moyseychuk refer to Wilstaetter's report and admit the lack of uniformity of the final product they do not disclose the way in which they were able to free the cyclohexadiene-1,3 obtained from gainoline and 1,2-dibromohexane from its by-products, i.e. cyclohexane and benzene. Though Chirko and Hoyseychuk established 2,1 as the number of double bonds in the determination carried out according to Huebl, the author of the present paper found after further physico-chemical investigations that the final product contains a rather large amount of cyclohexene. The presence of this substance may account for the differences in the rate of autooxidation of cyclohexadiene-1,3 according to the quinoline and hydroperoxide methods. There are 15 references, 5 of which are Soviet.

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On the Synthesis of Cyclohexadiene-1,3

507/79-29-8-80/81

ASSOCIATION: Leningradskiy gosudarstvennyy universitet (Leningrad State

University)

SUBMITTED: March 14, 1979

Card 3/3

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78264 sov/79-30-3-18/69 5.3600 Cherkasova, V. A., Nekhorosheva, Ye. V. AUTHORS: Reaction of Amines With Halogen Derivatives. Reaction of 1,2-Dibromcyclohexane With Aniline, TITLE: Methylaniline, and Ethylaniline Zhurnal obshchey khimii, 1960, Vol 30, Nr 3, PERIODICAL: pp 820-825 (USSR) The reaction of 1,2-dibromchylohexane with methylaniline yields two fractions. One contains cyclohexane, benzene, and a small amount of cyclohexa-1,3-diene, and ABSTRACT: has bp  $80-82^{\circ}$ ,  $n_D^{20}$  1.4650, and a bromine number of 99. The ultraviolet absorption spectrum of this fraction has the following maxima: 242.5, 248.5, 254 and 261 mft . The second fraction, bp  $162-163^{\circ}$ ,  $n_{D}^{20}$  1.5072, was an unsaturated monobromide (yield 17%). Analysis of this fraction indicated that it is a mixture of 3-bromeyelohexene-1 and 1-bromchelohexene-1. The Card 1/3

Reaction of Amines With Halogen Derivatives. I

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reaction of the monobromide fraction with quinoline yielded a hydrocarbon fraction and a monobromide fraction. The hydrocarbon fraction (yield 25%), bp 82.5-84.5°, bromine number 142, contained cyclohexa-1,3-diene and benzene. The mechanism of formation of the latter compound is still not clear. The authors suggested the following reaction:

Heating 1,2-bromcyclohexane with ethylaniline yields two fractions. The first fraction, bp 80-83°, contained cyclohexene, cyclohexa-1,3-diene and benzene. The monobromide fraction, bp 162-163°, contained 3-bromcyclohexene-1 and 1-bromcyclohexene-1. The same was obtained when 1,2-dibromcyclohexane was

Card 2/3

Reaction of Amines With Halogen Derivatives. I

78264 SOV/79-30-3-18/69

reacted with aniline. On the basis of these experimental results it was concluded that amines remove from 1,2-dibromcyclohexane not only hydrogen bromide but 2 bromine atoms as well. There are 1 table; 1 figure; and 31 references, 6 German, 4 U.K., 3 U.S., 1 French, 1 Czech, 16 Soviet. The 5 U.S. and U.K. references are: Marvel, C. S., Hartzell, G. E., J. Am. Chem. Soc., 81, 448 (1959); Standard Methods for Testing Petroleum and Its Products, ed. 5 (1944); Goering, H. L., Crossley, A. W., J. Chem. Soc., 85, 1403 (1904); Dictionary of Organic Compounds, Vol 2, London, 490 (1953); Sims, L. L., J. Am. Chem. Soc., 77, 3465 (1955).

ASSOCIATION:

Leningrad State University (Leningradskiy gosudarst-

vennyy universitet)

SUBMITTED:

July 6, 1959

Card 3/3

TEMNIKOVA, T.I.; CHERKASOVA, V.A.; PIASTRC, V.D., red.; KISELEVA, L.I., tekhn. red.

[Reference literature on organic chemistry] Spravochnaia literatura po organicheskoi khimii. Leningrad, Izd-vo Leningr. univ., 1961. 90 p. (MIRA 15:1)

(Bibliography--Chemistry, Organic)

DOMIN, N.A.; IVANOVA, L.P.; CHERKASOVA, V.A.

Interaction of asymm-diethylhydrazine with some aliphatic ketones. Zhur. ob. khim. 34 no.7:2116-2118 J1 '64 (MIRA 17:8)

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Polymethylene rings. Part 39: Conversion of 1-chloro-1-cyclohexene by the action of bromine. Zhur. ob. khim. 34 no.9:2848-2851 S '64. (MIRA 17:11)

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"Improving Hillside Pastures in the Forest-Steppe Zone," Korm.baza 3, No.4, 1952

- 1. CHERKASOVA, V. A.
- 2. USSR (600)
- 4. Meadows
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USSR/Meadow Cultivation - The Meadow.

K-1

Abs Jour

: Referat Zhur - Biologiya, No 16, 25 Aug 1957, 69141

Author

: Cherkasova, V.A.

Inst Title

: Studies of the Laboratory of Meadows and Pastures and

Nizhnemlinsk Meadow Supporting Station.

Orig Pub

: Yubil. sb. nauch. tr., posvyashch. 70-letiyu Poltavsk. op. st. Ukr. fil. Vses. n.-i. in-ta kormov, Kiev, Gos-

selkhozizdat USSR, 1956, 66-84

Abstract

: A review of studies beginning in 1931. Results of experiments on ways of improving water-meadows of steppe-forest zones in Ukrainian SSR and on creating seeded hay harvests and pastures on ravine slopes are stated. A number of grass mixtures for use on slopes of different exposures is recommended for steppe and afforested

steppe zones.

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- 2 -

BRONZOVA, Gil'da Yakovlevna; CHERKASOVA, Valentina Aleksandrovna; KOREYSHO, Ye.G., red.; ZODRIDINA, Z.P., tekhn.red.

[Putting eroded soils under pastures and meadows] Osvoenie smytykh zemel' pod kormovye ugodi'ia. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1958. 188 p. (MIRA 12:9) (Pastures and meadows) (Erosion)

COUNTRY : USBR CATEGORY : Farm Animals.

General Problems.

ABS. JOUR. : RZhBiol., No. 3 1959, No. 11975

AUTHOR

: Chorkasova, V. 1.; Cononovich, B. D.

INST.

TITLE

: Using Fastures on Slopes.

ORIG. PUB. : Sots. tvarinnitstvo, 1958, No 5, 40-41

ADSTRACT : No abstract.

G∍rd;

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CHERKASOVA, V.A., kand.sel'skokhozyzystvennykh nauk; KONONOVICH, Ye.D.

Planted pastures on the eroded slopes of the forest steppe of the Ukrainian S.S.R. Zemledelie 24 no.4:48-52 Ap '62. (MIRA 15:4)

1. Poltavskaya oblastnaya gosudarstvennaya sel'skokhozyaystvennaya opytnaya stantsiya.

(Ukraine-Pastures and meadows)

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Meadow formasion on slopes. Semledelie 27 no. 11:38-40 N 165.

(MIRA 18:30)

1. Poltavskeya oblastnaya sel'skokhozyaystvannaya opytnaya stantaiya.

CHERKASOVA, V.A.

Formation of benzene in the reaction of N,N-dimethylaniline with 1,2-dibromocyclohexane. Zhur.ob.khim. 32 no.9:2792 S :62.

(MIRA 15:9)

1. Leningradskiy gosudarstvennyy universitet. (Benzene) (Aniline) (Cyclohexane)

## "APPROVED FOR RELEASE: 06/12/2000

#### CIA-RDP86-00513R000308420011-2

5/080/61/034/006/005/020 D247/D305

AUTHORS:

Lozovoy, A.V., Euselevich, D.L., Ravikovich, T.M., Senyavin, S.A., and Cherkasova, V.F.

TIPLE:

Hydrogen catalysts based on an alum in an osilionte

pase

PERIODICAL: Zhurnal prikladnoy khimii, v. 34, no. 6, 1961, 1200 - 1208

TEXT: In the present work an attempt has been made to produce a catalyst for the hydrogenation of coals and tars in the production of higher aromatic benzenes. The investigations were concerned of higher aromatic benzenes. The investigations were concerned mainly with finding a suitable natural alum in ostilicate, synthemainly with finding a suitable natural alum in ostilicate, synthemainly with finding a suitable natural alum in ostilicate, synthemainly a catalyst of a complex character capable of converting in sizing a catalyst of a complex character capable of converting in sizing a catalyst of such cutalysts on prolonged working investigating the stability of such cutalysts on prolonged working

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Hydrogen catalysts based on ...

under a pressure of 300 atm. From many natural alum in osilicates tosted "askanite",  $H_2SO_4$  - activated Askansk clay, was found to provide a base for the most active catalyst. The normal procedure of preparing the catalysts involved intimately mixing the askanite, water, Cros and aq. HF, followed by the addition of tungstic acid, water, Cros and aq. HF, followed by the addition of tungstic acid, water, Cros and aq. HF, followed by the addition of tungstic acid, water, Cros and aq. HF, followed by the addition of tungstic acid, water, Cros and aq. HF, followed by the addition of tungstic acid, water, Cros and aq. HF, followed by the addition of tungstic acid, water, Cros and aq. HF, followed by the addition of tungstic acid, water and constant and constant and constant acid, and the mass was crushed, sieved and formed into tablets. Activation was carried out by heating to 4500 formed into tablets. Activation was carried out by heating to 4500 formed into tablets. Activation was carried out by heating to 4500 formed into tablets. Activation was carried out by heating to 4500 formed into tablets. Activation was carried out by heating to 4500 formed into tablets. corned into tablets. Activation was carried out by heating to 4500 c in a stream of hydrogen or hydrogen/hydrogen sulphide. Activity of the prefared catalyst was then determined from the yields and compositions of the hydrogenation products. The results obtained, using five of the most interesting size in ostilicate catalysts. using five of the most interesting alum in osilicate catalysts, are given in fable 1, which also includes a technical alum in omolybdenum catalyst.

Table 1. Composition and comparative activity of aluminosilicate catalysts under autoclave conditions (510°C, initial hydrogen pressure 130 atm, time = 20 min. Quantity of catalyst = 10 %).

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	Hydrogen catalysts based on Table 1. (cont'd) Coctas n opashnte.  Table 1. (cont'd) Ratannaaropen n ye	S/080/61/034/006/003/020 D247/D305  вная витпаность влюмосилинатных пових автоплавных опытов (5107, на- одорода 130 ат. длитольность 20 млнут) одорода 130 аг. длитольность 20 млнут)	
		THE TRANSPORT A PORTO (DEC. %)  THE TRANSPORT OF THE PORTO (DEC. %)  THE TRANSPORT OF	
	12 70.6 10.9 10.9 11 68.0 10.5 6.1 30 71.7 10.8 6.0 26 72.0 11.0 6.1		
	Legend: 1 - Catalyst prepared f based on raw material); 3 - no 40 % hydrofluoric acid; 6 - 12 -	of catalyst; 4 - askonite; 5 - (as indicated); 13 - product of	
	Card 3/5		

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Hydrogen catalysts based on ...

hydrogenation boiling up to 175°C; 14 - gas + losses; 15 - quantity of aromatic hydrocarbons in the product of hydrogenation (weight %); 16 - \*Catalyst composition: Al2°C3 76.05 %; NoO3 14.77 % (No 9.85 %); Fe<sub>2</sub>0<sub>3</sub> 0.59 % (Fe 0.41 %); H<sub>2</sub>0 bound + 8.59 %; time of experiment = 15 min.

Further experiments were conducted in a continuous flow apparatus at 480-520°C and 300 atm. over a period of 6-10 hrs. Under those conditions catalyst No. 345 was found to exhibit the highest activity. Investigations of activity and stability of the catalyst No. 345 were also conducted in a continuous hydrogenation plant at a temperature of 510°C and a pressure of 300 atm; ever 97 hrs. runs. For velocities equal to 1, the average yield of the product of hydrogenation was 82%, including 50% of the fraction boiling up to 170°C and containing 55% of aromatic hydrocarbons. After 97 hrs. of operation the catalyst was found to lose some of its activity, which could not be restored by enrichment with sulphur. It has been

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Hydrogen catalysts based on ...

deduced, therefore, that a hydrogen pressure of the order of 300 atm is insufficient to prevent deactivation of the catalyst used for the hydrogenation of coal tar derivatives. There are 4 tables and 19 references: 10 Soviet-bloc and 9 non-Soviet-bloc. The reand 19 references: 10 Soviet-bloc and 9 non-Soviet-bloc. The reand 19 references: 10 Soviet-bloc and 9 non-Soviet-bloc. The reand 19 references: 10 Soviet-bloc and 9 non-Soviet-bloc. The reand 19 references: 10 Soviet-bloc and 9 non-Soviet-bloc. The remainder of the results of the ferences: 10 Soviet-bloc and 9 non-Soviet-bloc. The remainder of the results of the results of the results of the results of the ferences: 10 Soviet-bloc and 9 non-Soviet-bloc. The remainder of the results of the remainder of the

ASSOCIATION: Institut goryuchikh iskopayemykh AN SSSR (Institute of Mineral Fuels AS USSR)

SUBMITTED: September 19, 1960

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